

Technical Data Sheet

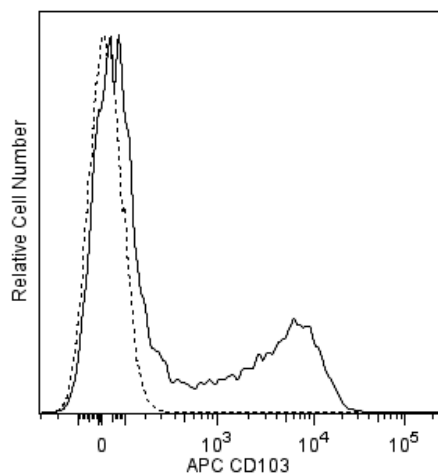
APC Mouse Anti-Human CD103

Product Information

Material Number:	563883
Alternate Name:	ITGAE; Integrin alpha-E; ITAE; HML-1 antigen; Mucosal lymphocyte 1; HUM
Size:	50 tests
Vol. per Test:	5 µl
Clone:	Ber-ACT8
Immunogen:	Human MAPS16 T Cell Line
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V A067, BP047, S256
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The Ber-ACT8 monoclonal antibody specifically binds to the human mucosal lymphocyte antigen 1 (HML-1). This is a 175 kDa type I transmembrane glycoprotein, also known as integrin αE (ITGAE, Integrin alpha-E) and CD103. It is found on >90% of intestinal intraepithelial lymphocytes (iIEL) associated with integrin β7. CD103 is also expressed on lamina propria T lymphocytes in the intestine and on phytohemagglutinin-stimulated peripheral blood lymphocytes. It is rarely expressed on resting peripheral blood lymphocytes. It has been suggested that CD103 may have an accessory function for activation of iIEL. CD103 has been reported as a useful tool in hairy cell leukemia research.



Flow cytometric analysis of CD103 expression on stimulated human peripheral blood lymphocytes. Phytohemagglutinin-stimulated (3 days) peripheral blood mononuclear cells were stained with either APC Mouse IgG1, κ Isotype Control (Cat. No. 554681; dashed line histogram) or APC Mouse Anti-Human CD103 antibody (Cat. No. 563883; solid line histogram). The fluorescence histograms were derived from events with the forward and side light-scatter characteristics of viable stimulated lymphocytes. Flow cytometric analysis was performed using a BD™ LSR II Flow Cytometer System.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
554656	Stain Buffer (FBS)	500 ml	(none)
554657	Stain Buffer (BSA)	500 ml	(none)
554681	APC Mouse IgG1 κ Isotype Control	0.1 mg	MOPC-21

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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
7. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

References

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